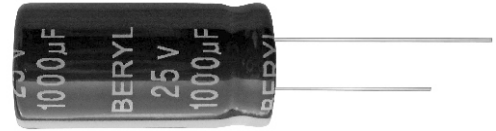


RG Series

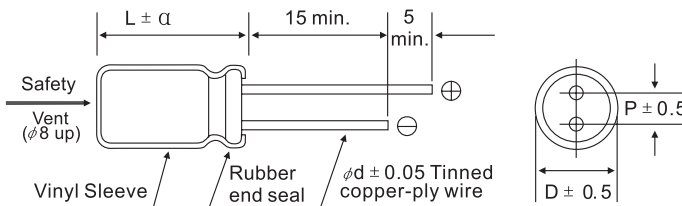
- Very low impedance and long life
- Endurance with ripple current: 4,000 to 10,000 hours at 105°C
- RoHS Compliant



■ 規格表 SPECIFICATIONS

項目 Items	特性參數 Characteristics										
使用溫度範圍 Category Temperature Range	-55~+105°C										
額定工作電壓範圍 Rated Voltage Range	6.3~100V										
靜電容量允許偏差 Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)										
漏電流 Leakage Current	I ≤ 0.01CV or 3 μA, which is greater after application of rated Voltage for 2 minutes. 施加額定工作電壓2分鐘後讀數, 二者取大值 I: 漏電流 (μA), C: 靜電容量 (μF)、額定電壓 (V)										
損耗角正切值 tan δ Dissipation Factor	Rated voltage(V)	6.3	10	16	25	35	50	63	80	100	(at 20°C, 120Hz)
	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08	
	標稱容量超過1000uF, 則每增加1000uF, 損耗角正切值增加0.02 When nominal capacitance exceeds 1000 μ F, add 0.02 to the value above for each 1000 μ F increase. (at 20°C, 120Hz)										
低溫特性 Low temperature Characteristics (Max. Impedance Ratio)	電容器低溫的阻抗比值, 不應超過下表所列出的值 Impedance ratio values must not exceed values listed in below table.										
	Rated voltage(V)	6.3	10	16	25	35	50	80	100		
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2		
	Z(-55°C)/Z(+20°C)	8	6	4	3	3	3	3	3	(120Hz)	
耐久性 Endurance	施加額定工作電壓和額定紋波電流經下表規定時間, 恢復到20°C後, 產品性能應滿足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after application of rated voltage with rated ripple current for the specified period of time.										
	Time	6.3 ~ 10V	Φ5、Φ6.3: 4000hours			Φ8、Φ10: 6000hours		Φ13 ~ Φ18: 8000hours			
		16 ~ 100V	Φ5、Φ6.3: 6000hours			Φ8、Φ10: 7000hours		Φ13 ~ Φ18: 10000hours			
	Capacitance change	≅ ±25% of the initial value									
	D.F. (tan δ)	≅ 200% of the specified value									
	Leakage current	≅ The specified value									
高溫儲存特性 Shelf Life	105°C 放置1000小時, 恢復到20°C後, 產品性能應滿足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.										
	Capacitance change	≅ ±25% of the initial value									
	D.F. (tan δ)	≅ 200% of the specified value									
	Leakage current	≅ The specified value									

■ 外形圖 DIMENSIONS (mm)



ΦD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

■ 紋波電流補正係數 RATED RIPPLE CURRENT COEFFICIENT

- 頻率係數 Frequency Coefficient

Capacitance(μF)	Frequency(Hz)			
	120	1k	10k	100k
22 ~ 180	0.40	0.75	0.90	1.00
220 ~ 560	0.50	0.85	0.94	1.00
680 ~ 1,800	0.60	0.87	0.95	1.00
2,200 ~ 3,900	0.75	0.90	0.95	1.00
4,700 ~ 18000	0.85	0.95	0.98	1.00

RG Series

■ 尺寸與最大紋波電流一覽表 STANDARD RATINGS

Case size ΦD×L (mm)	WV(V)	63(1J)			80(1K)			100(2A)					
		Capacitance (μF)	Impedance (Ω max.)100kHz		Capacitance (μF)	Impedance (Ω max.)100kHz		Capacitance (μF)	Impedance (Ω max.)100kHz		Rated ripple current (mArms) (at 105°C 100kHz)		
			20°C	-10°C		20°C	-10°C		20°C	-10°C			
5×11		15	0.98	6.0	124	10	1.80	6.6	145	6.8	5.00	8.0	92
6.3×11		33	0.85	1.6	140	33	0.57	2.3	243	10	3.5	6	207
8×12		56	0.42	0.98	407	56	0.36	1.4	427	22	2.8	5.2	268
8×16		82	0.32	0.94	547	68	0.25	1	525	39	2.3	5.1	357
8×20		150	0.26	0.68	687	100	0.21	0.85	680	56	2	4.3	568
10×13		82	0.21	0.75	518	82	0.25	0.96	624	47	1.53	3.4	488
10×16		120	0.15	0.58	625	100	0.21	0.87	685	68	1.21	3.2	609
10×20		220	0.096	0.38	785	120	0.19	0.73	780	82	1.03	2.7	780
10×25		270	0.081	0.31	856	150	0.12	0.52	905	100	0.82	2.5	1012
10×30		180	0.11	0.42	965	180	0.13	0.43	975	100	0.75	2.13	975
10×60										820	0.048	0.11	2907
13×20		330	0.08	0.31	850	220	0.11	0.47	1,102	150	0.83	1.95	1103
13×25		470	0.051	0.2	908	330	0.06	0.23	1,520	220	0.73	1.56	1254
13×30		560	0.038	0.14	1,103	390	0.051	0.21	1,650	270	0.65	1.34	1506
13×35		680	0.033	0.11	1,305	470	0.043	0.17	1,640	330	0.43	1.1	1855
13×40		820	0.027	0.09	1,907	560	0.036	0.15	1,800	390	0.44	0.95	1908
16×21		470	0.052	0.21	935	330	0.058	0.21	1,650	220	0.8	1.73	954
16×25		680	0.045	0.15	1,108	470	0.055	0.19	1,709	330	0.58	1.21	1603
16×32		820	0.032	0.096	1,759	680	0.033	0.12	2,100	470	0.33	1.025	2155
16×35		1,000	0.028	0.093	1,809	820	0.029	0.1	2,200	560	0.29	0.95	2204
16×40		1,200	0.024	0.088	1,990	1,000	0.027	0.09	2,560	680	0.27	0.72	2306
18×21		680	0.045	0.16	1,107	470	0.068	0.26	1,807	330	0.45	0.98	1509
18×25		1,000	0.034	0.12	1,510	680	0.054	0.21	1,950	470	0.38	0.73	2204
18×32		1,200	0.029	0.09	1,806	820	0.042	0.14	2,100	560	0.31	0.7	2307
18×36		1,500	0.025	0.083	2,109	1,000	0.027	0.084	2,205	680	0.27	0.62	2602
18×40		1,800	0.022	0.074	2,410	1,200	0.026	0.077	2,508	820	0.26	0.53	2909